## <Translation>

## **CLAIMS**

- (Amended) An R-T-B based sintered magnet having a
   composition comprising:
  - 27.0 mass% to 32.0 mass% of R, which is at least one of Nd, Pr, Dy and Tb and which always includes either Nd or Pr;
  - 63.0 mass% to 72.5 mass% of T, which always includes Fe and up to 50% of which is replaceable with Co;
- 10 0.01 mass% to 0.08 mass% of Ga; and
  - 0.85 mass% to 0.98 mass% of B<sub>.</sub>

wherein the magnet comprises a main phase with a tetragonal  $R_2T_{14}B$  type crystal structure, which accounts for at least 90% of the overall volume of the magnet, but includes substantially no

- 15  $R_{1.1}Fe_4B_4$  phases.
  - 2. The R-T-B based sintered magnet of claim 1, further comprising at most 2.0 mass% of M, which is at least one element selected from the group consisting of Al, Si, Ti, V, Cr, Mn, Ni,
- 20 Cu, Zn, Zr, Nb, Mo, In, Sn, Hf, Ta and W.

## 3. (cancelled)

- 4. The R-T-B based sintered magnet of claim 1 or 2, having
  5 an oxygen concentration of at most 0.5 mass\*, a nitrogen
  concentration of at most 0.2 mass\*, and a hydrogen concentration
  of at most 0.01 mass\*.
- 5. A method for producing an R-T-B based sintered magnet,10 the method comprising the steps of:

preparing a powder of an alloy that has a composition comprising 27.0 mass% to 32.0 mass% of R (which is at least one of Nd, Pr, Dy and Tb and which always includes either Nd or Pr), 63.0 mass% to 72.5 mass% of T (which always includes Fe and up to 50% of which is replaceable with Co), 0.01 mass% to 0.08 mass% of Ga and 0.85 mass% to 0.98 mass% of B;

compacting and sintering the alloy powder, thereby making a sintered magnet; and

6. The method of claim 5, wherein the step of preparing the alloy powder includes the steps of:

preparing a melt of the alloy;

rapidly cooling and solidifying the melt of the alloy by a strip casting process, thereby making a rapidly solidified alloy; and

pulverizing the rapidly solidified alloy.